CLE Ρ ARCHITECTURAL LIGHTING®

Project Name

Date _

Туре _

CHUTE CD سنہ w 4" Open Suspended Linear Direct 3-13/16" (96.8mm) 2-1/2" (63.5mm) 4" (101.6mm)

Key Features

- Light Protection Guard (LPG) covers LEDs for optimal performance

- Four distinct decorative endcaps for tailored designs 6063-T6 Extruded aluminum housing 5-year limited warranty covers LED, driver and fixture .
- ETL listed conforming to UL 1598 in US and CSA 250 in Canada Buy American Act compliant
- .





Example Part #: CD-N-830HO-26'-AC48G1-1-EL1-1-0-W-AT

N			
INDIRECT SHIELDING	CRI, CCT & OUTPUT ¹	LENGTH ²	
N - None	_27 2700K _30 3000K _35 3500K _40 4000K CL Custom Lumens CW Custom Watts <i>CRI, CCT & Output pg. 2</i>	Individual Fixture Continuous Row <i>Length pg.</i> 2	ACG AC to Grid _ACJB - (P)AC to J Box ACST - AC to Structure AC5G 5" Non-Power Canopy AC5JB - 5" Non-Power Canopy SQG 5" Square Canopy SQ_JB - 5" Square Canopy S - Surface Mount Mounting pg. 3
_		-	
VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY ⁴
U - Universal (120 thru 277V, remote) 1 - 120V 2 - 277V 3 - 347V (remote) Voltage pg. 3	Integral Driver EL1 - ERP Power (1%, 0-10v, 120v or 277v) Remote Drivers FSD - Factory Select Driver (1%, 0-10v) PL2 - Advance Xitanium (1%, 0-10v) OL2 - Osram (1%, 0-10v) OL4 - Osram 347v (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED SOLOdrive (01%, 0-10v) LH1 - Lutron Hi-lume (1%, EcoSystem) Driver pg. 4	 1 - Single Circuit M - Multi Circuit E - Emergency (entire fixture) N - Night Light (entire fixture) Circuiting pg. 4 	 O - None FSG - Factory Select ALCR GI - Iota ETS DR GB - Bodine GTD PLL - Bodine 10W (remote) ILL - Iota 10W (remote) E - Emergency Section N - Night Light Section L - Life Safety Section Battery & Emergency pg. 4-5
FINISH	ENDCAPS	FIXTURE OPTIONS	CONTROLS
W - White S - Metallic Silver BL - Textured Black BR - Bronze GR - Graphite CC - Custom Color <i>Finish pg. 5</i>	FE - Flat Endcap IB - Inward Bevel Endcap OB - Outward Bevel Endcap AT - Angled Twist Endcap <i>Endcaps pg. 5</i>	DSP - Customer Supplied Battery/Driver/ Sensor CP - Chicago Plenum <i>Fixture Options pg. 5</i>	Pinnacle is able to accommodate different contro solutions from different manufacturers. Consult Factory for more information.

fixtures come in 2', 3', 4', 5', 6', 7' & 8' lengths. Continuous row come in 1' increments. ³Use first _ to specify either standard AC cable or Power over AC (PAC), then specify cable length standard AC is 48", 120", or 240"; Specify grid: G1=15/16", G9=9/16" or GS=Screw Slot. Example: AC48G1. Power over AC (PAC) is available with PL2 driver individual fixtures ONLY and NOT available with AC to Grid or AC to ST. Surface mounting (S) requires Remote Driver. 4All Battery & Emergency options are REMOTE. Enter quantity for Battery and Emergency, Example 2P.

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 $\begin{array}{c} \textbf{CHUTE} \ \bigcirc \ \bigcirc \end{array} \\ \textbf{Open Suspended Linear} \end{array}$

CRI, CCT & Output

■ 80 CRI = R9≥5, 90 CRI = R9≥61									
Custom Output - Lumens OR Wattage									
CL				mens (i.e. CL83550		-	-	elow. Lumens are spec	ified per color temp
CW	Specify (CRI, CCT a	and desired wa	attage (i.e. CW9407	7) Speci	ify watts between stand	dard offering listed bel	low	
80 CRI									
	Color	Output	1						
	00001/	Lumens/ft		Vatts/ft					
830	3000K	500		4.3					
830HO 830VHO	3000K 3000K	750		6.5 3.6					
835	3500K	500		4.1					
835HO	3500K	750		5.0					
835VHO	3500K	1000		3.0					
840	4000K	500		3.9					
840HO	4000K	750		5.9					
840VHO	4000K	1000	128	7.8					
90 CRI (10	nger lead time	s may apply,	consult factory)						
927	2700K	500		5.2					
927HO	2700K	750		7.7					
927VHO	2700K	1000	100 1	0.0					
930	3000K	500	105 4	4.8					
930HO	3000K	750		7.1					
930VHO	3000K	1000		9.4					
935	3500K	500		4.6					
935HO	3500K	750		6.8					
935VHO 940	3500K 4000K	1000 500		9.0 4.7					
940HO	4000K	750		+.7 7.0					
940VHO	4000K	1000		9.3					
		1.000	1.00						
'LPW and watts/ft based off 48" fixture size.									
Length									
-									
	d Flat end ca the overall			ch end cap or 5/8"		mm) to the overall l naled Twist end ca		n) to each end cap	or 1" (25.2mm)
 For Inward 	Bevel end ca	ap add 13/3	2" (10.1mm) to	each end cap or 13/1	6" to the	e overall length of th	ne row.	in) to cach cha cap	
(20.2mm) to the overall length of the row. • See page 4 for endcap details.									
 For Outward Bevel end cap add 23/32" (18.4mm) to each end cap or 1-7/16" Consult factory for additional lengths. 									
2	3		4	5	6	7	8	-	
Indiv. Fixtur	e Indiv.	Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Indiv. Fixture	Cont. Run Specify nominal	
24" (588mm)							overall row length	
	36" (914	4mm)						to the foot	

36" (914.4mm)					to the foot	
48″ (1219.2mm)						
	60" (1524mm)					
	72"	(1828.8mm)				
		84″	' (2133.6mm)			
			96"	(2438.4mm)		
				5	Specify to the foot	

Fixture lengths do not include endcap dimensions. See bullet points listed above for each endcap. Example: 2' fixture (24") + 2 Standard Flat Endcaps (5/8") = 24 5/8" overall.

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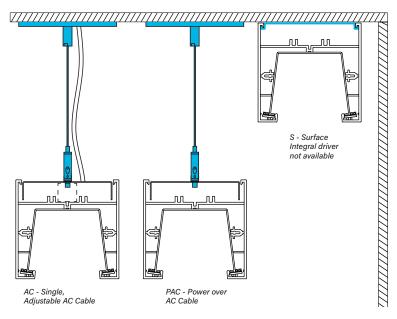


Mounting

- Specify cable length in ordering code (AC48G1)
- Standard specifiable lengths are 48", 120", 240" and 350"
- End plates and power cord attached at factory
- Aircraft cable (AC) mounts on 4' (1219.2mm) and 8' (2438.4mm) centers
- Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies
- Canopies are painted to match fixture finish, power cords are white, grey, or black depending on fixture finish. See Finish section for additional details
- Approved for dry/damp location unless otherwise noted, PAC NOT rated for dry/ damp

ACG1	Aircraft Cable 1" (15/16") T-Bar		
ACG9	Aircraft Cable 9/16" T-Bar		
ACGS	Aircraft Cable Screw Slot T-Bar		
ACJB	Aircraft Cable Junction Box		
ACST	Aircraft Cable Structure		
PACJB	Power over Aircraft Cable Junction Box		
S	Surface Mount		
AC5_G_	Aircraft Cable 5" (127mm) Non-Power Canopy		
AC5_JB Aircraft Cable 5" (127mm) Non-Power Cano			
SQG_ Aircraft Cable 5" (127mm) Square Canopy			
SQJB	Aircraft Cable 5" (127mm) Square Canopy		

- Refer to installation instructions during installation at the job site
- Maximum fixture weight is 20 lbs for a standard 4' fixture
- Remote box will be included for all specifications that include batteries, GTD, or a driver OTHER THAN the EL1. See Installation Instructions for more specific information about mounting
- For integral driver version, access for wiring and drivers through the indirect side of the fixture only
- Surface Mount (S) requires remote driver.
- Power over AC (PAC) is available for PL2 Driver, INDIVIDUAL, PAC to JB FIXTURES ONLY.



Voltage

Some CHUTE configurations will not accommodate all voltage options; consult with factory

For EL1 driver, must specify 120v or 277v

U	Universal (remote)
1	120 volt
2	277 volt
3	347 volt (remote)

CHUTE CD

Open Suspended Linear



Driver

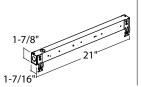
Standard Driver Option = EL1

Integral Driver

- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more driver options, see Pinnacle Resource Guide Some CHUTE configurations will not accommodate all driver options;
- consult with factory EL1 driver is integral to the fixture housing. Remote box necessary for all drivers
- OTHER THAN the EL1
- Osram and Lutron Drivers have a remote distance limitation of 10'
- eldoLED and Advance Drivers have an average remote distance limitation of 50'. Consult Factory for specific configurations

Slim Remote Box

Standard Remote Box





EL1	ERP Power 1%, 0-10v, requires 120 or 277			
Remote I	Driver	Slim Remote Box	Standard Remote Box	
0-10V Drive	ers			
FSD	Factory Select Driver (1%, 0-10v)			
PL2	Signify Advance Xitanium 1%, 0-10v			
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v			
OL2	Osram Optotronic, 1%, 0-10v	Standard Output (STD),	Very High Output (VHO), 90CRI Options	
OL4	Osram Optotronic 347v, 1% 0-10v, requires 347v option	High Output (HO)	Options	
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic			
ES1	eldoLED SOLOdrive 0-10v, 0.1% Logarithmic			
DALI Drive	'S			
EE3	eldoLED ECOdrive .1%, DALI (logarithmic)			
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)	Standard Output (STD),	Very High Output (VHO), 90CRI	
OD1	Osram Optotronic 1%, DEXAL	High Output (HO)	Options	
OD2	Osram Optotronic 1%, DALI 2 Channel			
Lutron Driv	ers			
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1	All Configurations	N/A	
LH4	Lutron Hi-Lume 1%, 2-wire, Lutron-LTEA2W, 120v only	All Configurations	N/A	
Alternate D	rivers			
EH1	ELV 120v only, 0-10v universal	All Configurations	N/A	

How to specify Circuiting, Battery and Emergency

- Select fixture circuiting from options below
- Some CHUTE configurations will not accommodate all circuiting options, consult with factory

Circuiting

1	Single Circuit		
Μ	Multi Circuit		
E	Emergency Circuit only		
N	Night Light Circuit only		



Battery and emergency section options are available in addition to fixture circuit Select battery and emergency section options below; factory shop drawing required Some CHUTE configurations will not accommodate all circuiting options, consult with factory

Battery and/or Emergency If Required

No battery or specific emergency section required

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CHUTE CD

Multiply battery wattage X fixture LPW shown on Lumen Table

For Approximate Battery Lumen Output

Battery OR Emergency Ordering Examples

Single circuit, 10w Integral Battery

Single circuit, GTD required

Flat Endcap

• Emergency only, 10w Integral Battery

92.3 (LPW) x 10 (watts) = 923 battery lumen output



Ordering Code: 1-1PLL

Ordering Code: E-1PLL

Angled Twist

Ordering Code: 1-1G

Battery

- Battery is REMOTE
- Select battery section type if required, indicate total QTY. Example 2PL
- 90 minute battery runtime; test button is remote to fixture and requires an additional drop
- Entire fixture housing is on battery for 2' and 4' lengths
 4' of fixture is on battery for 6' or 8' housing lengths
- 4 of fixture is on battery for 6 or 8 housing leng
 PLL and ILL not available with VHO and 927HO
- For more battery options available, see <u>Pinnacle Resource Guide</u>

0	No Battery
_ILL	lota 10w Integral Lithium, Self Testing
_IRC	lota 10w Remote
_IRH	lota 20w Remote
_PLL	Bodine 10w Integral Lithium, Self Testing
_PRL	Bodine 7w Remote
_PRS	Bodine 7w Remote, Self Testing
_PRD	Bodine 10w Remote, Dual Flex
_PRH	Bodine 20w Remote

Emergency

- GTD is REMOTE
- Select emergency type if required, indicate total QTY. Example 1E
- Emergency available in 4' increments
- Combine battery and emergency ordering codes if both options are selected

_FSG	Factory Select ALCR, Automatic Load Control Relay		
_GI	lota ETS DR, Emergency Lighting Control Device		
_GB	Bodine GTD, Emergency Lighting Control Device	Combination Section Ordering Examples	
_E	Emergency circuit	 Single circuit, (1) 10w battery, (1) emergency 	Ordering Code: 1-1PLL1E
_N	Night Light circuit	 Multi circuit, (2) 10w battery, (2) emergency 	Ordering Code: M-2PLL2E
_L	Life Safety circuit section NO THROUGH WIRE	 Single circuit, (1) night light 	Ordering Code: 1-1N

Finish

- · Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes
- Selecting a fixture finish other than white may impact lumen output; consult factory for more information

W	White (white cord/white canopy)			
S	Metallic Silver (grey cord/silver canopy)			
BL	Textured Black (black cord/black canopy)			
BR	Bronze (white cord/bronze canopy)			
GR	Graphite (white cord/graphite canopy)			
CC	Custom Color (white cord/color match canopy)			

Endcaps

Endcap MUST be specified.

FE	Flat Endcap
IB	Inward Bevel Endcap
OB	Outward Bevel Endcap
AT	Angled Twist Endcap



•	Additional opti	ons to enhance	e the fixture and	d finish of the product
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Controls

Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

Outward Revel

Inward Revel

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Photometrics

ITI 93-69

4219 lm

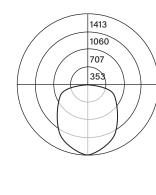
122 LPW

34.5 W

CD-N-835VHO

Open

Test # Catalog # Lumens Watts Efficacy



Candela Distribution					
Vert Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	1411	1411	1411	1411	1411
5	1410	1394	1397	1393	1386
10	1395	1369	1360	1347	1337
15	1369	1332	1311	1292	1280
20	1335	1285	1256	1228	1215
25	1289	1229	1191	1157	1141
30	1234	1164	1117	1075	1055
35	1169	1093	1037	986	964
40	1095	1014	946	891	869
45	1010	927	850	798	782
50	918	833	751	722	716
55	816	733	661	656	656
60	709	627	585	598	603
65	593	521	517	545	552
70	476	421	456	492	500
75	357	341	397	427	428
80	235	272	322	299	272
85	121	193	111	61	46
90	31	60	40	18	0

Luminance Data (cd/sq.m)

Angle In	Average	Average	Average	
Degrees	0-Deg	45-Deg	90-Deg	
45	17498	8801	7048	
55	17058	7119	5990	
65	16247	5991	5270	
75	14843	5147	4422	
85	11127	1692	536	

Applications & Certificates

Construction: 6063-T6 Extruded aluminum housing. Highly reflective coextruded acrylic reflector with LED protection guard.

Mounting: Aircraft cable and surface mount available. Straight aircraft cable that mounts on 4'-0" (1219.2mm) and 8'-0" (2438.4mm) centers. Aircraft Cable supplied with 5" (127mm) power and 2" (50.8mm) non-power canopies. Refer to installation instructions for appropriate ceiling detail. Canopies are painted white unless otherwise specified. Maximum fixture weight is 20 lbs. for a standard 4' fixture.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%; 2' lengths may have a greater wattage deviation. All luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. L70 = 146,500 hours and L90 = 45,100 hours. MacAdam 3-Step Ellipses. For all available IES files, please visit our website at pinnacle-ltg.com.

CRI, CCT & Output: Three lumen packages available. Standard, High (HO), and Very High (VHO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K, and 4000K. 80 CRI = R9 \geq 5 and 90 CRI = R9 \geq 61.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL4 in Driver section when 347 volt (3) is selected. Some CHUTE configurations will not accommodate all voltage options; consult with factory.

Driver: Standard INTEGRAL Driver Option is EL1. All other driver options will be in remote box. EL1 designed for use with 120v or 277v only. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 128°F/54°C. When ND is specified, a spec grade driver will be provided. For more driver options, see Pinacle Resource Guide. Some CHUTE configurations will not accommodate all driver options.

Remote Mounting Guide (Advance & eldoLED)

Distance limited by ma			ect should be cal	culaded seperatel	/
Max Distance	142'	107′	71′	50'	37'

Max Distance					
4' Housing	4.9w/ft	6.4w/ft	9.5w/ft	13w/ft	N/A
8' Housing	N/A	3.1w/ft	4.8w/ft	6.9w/ft	9w/ft

Circuiting: Select from single circuit (1), Multi cricuit (M), Emergency circuit (E) or Night Light circuit (N). For emergency circuiting situations that require no through wire or circuit separation, Life Safety Circuit should be selected. This will provide a separate power feed and only the Life Safety Circuit in that section. Some CHUTE configurations will not accommodate all circuiting options, consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is remote to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Standard powder-coat textured white, metallic silver, textured black, graphite or bronze painted finish; consult factory for chip of standard paint finishes. Canopies painted to match fixture specified fixture finish. Contact factory for additional custom color and finish options.

Controls: Pinnacle is able to accommodate different control solutions from different manufacturers. Consult Factory for more information.

Labels: ETL listed conforming to UL 1598 in US and CSA 250 in Canada. Approved for dry/damp location unless otherwise noted.

Fixture Weight: Maximum fixture weight is 20 lbs. for a standard 4' fixture.

Buy American Act Compliant

Warranty: CHUTE LED offered with a 5-year limited warranty. Covers LED, driver and fixture.